

IFW



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Liang et al.

Application No. 10/826,971

Filed: April 15, 2004

Confirmation No. 1184

For: MULTI-LAYER RUN LEVEL ENCODING  
AND DECODING

Examiner: not yet assigned

Art Unit: 2819

Attorney Reference No. 3382-67641-01

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 on the date shown below.

Attorney or Agent  
for Applicants

Date Mailed

KJL

October 18, 2005

**INFORMATION DISCLOSURE STATEMENT  
PURSUANT TO 37 C.F.R. § 1.97(b)(3)**

COMMISSIONER FOR PATENTS  
P.O. BOX 1450  
ALEXANDRIA, VA 22313-1450

Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language and/or non-English-language documents. Applicants understand the cited non-U.S. patents to relate to entropy coding and/or decoding. Applicants respectfully request that these documents be listed as references cited on the issued patent.

Copies of United States patents and United States published patent applications do not have to be provided to the Patent Office (37 C.F.R. 1.98(a)(2)(ii)). Copies of unpublished U.S. applications do not have to be provided, as long as the application is available on PAIR, as this requirement of 37 C.F.R. § 1.98(a)(2)(iii) has been waived by the United States Patent and Trademark Office pursuant to the Official Gazette Notice on October 19, 2004 (1287 OG 163). Applicants will provide copies of such patents or applications upon request.

Applicants filed this Information Disclosure Statement ("IDS") before the mailing date of a first Office action on the merits. As a result, no fee should be required to file this IDS. However, if the Patent Office determines that a fee is required for Applicants to file this IDS, please charge any such fees, or credit overpayment, to Deposit Account No. 02-4550. A **duplicate copy** of this Information Disclosure Statement is enclosed.

The filing of this IDS shall not be construed to be an admission that the information cited in the statement is, or is considered to be, prior art or otherwise material to patentability as defined in 37 C.F.R. §1.56.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

By   
\_\_\_\_\_  
Kyle B. Rinehart  
Registration No. 47,027

One World Trade Center, Suite 1600  
121 S.W. Salmon Street  
Portland, Oregon 97204  
Telephone: (503) 226-7391  
Facsimile: (503) 228-9446

cc: Client (307597.01)  
Docketing

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>OCT 20 2005</i>	Attorney Docket Number	3382-67641-01
	Application Number	10/826,971
	Filing Date	April 15, 2004
	First Named Inventor	Liang
	Art Unit	2819
	Examiner Name	not yet assigned

**U.S. PATENT DOCUMENTS**

Copies of U.S. Patent documents do not need to be provided, unless requested by the Patent and Trademark Office. For patents, provide the patent number and the issue date. For published U.S. applications, provide the publication number and the publication date. For unpublished pending patent applications, provide the application number and the filing date.

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
		4,698,672	October 6, 1987	Chen
		4,813,056	March 14, 1989	Fedele
		4,901,075	February 13, 1990	Vogel
		5,043,919	August 27, 1991	Callaway et al.
		5,089,818	February 18, 1992	Mahieux et al.
		5,128,758	July 7, 1992	Azadegan
		5,179,442	January 12, 1993	Azadegan
		5,227,788	July 13, 1993	Johnston
		5,266,941	November 30, 1993	Akeley et al.
		5,394,170	February 28, 1995	Akeley et al.
		5,400,075	March 21, 1995	Savatier
		5,457,495	October 10, 1995	Hartung
		5,461,421	October 24, 1995	Moon
		5,481,553	January 2, 1996	Suzuki
		5,559,557	September 24, 1996	Kato et al.
		5,579,430	November 26, 1996	Grill et al.

EXAMINER SIGNATURE:	DATE CONSIDERED:
------------------------	---------------------

\* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	Attorney Docket Number	3382-67641-01
	Application Number	10/826,971
	Filing Date	April 15, 2004
	First Named Inventor	Liang
	Art Unit	2819
	Examiner Name	not yet assigned

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
		5,654,706	August 5, 1997	Jeong et al.
		5,661,755	August 26, 1997	Van de Kerkhof
		5,717,821	February 10, 1998	Tsutsui
		5,825,830	October 20, 1998	Kopf
		5,835,144	November 10, 1998	Matsumura
		5,982,437	November 9, 1999	Okazaki
		5,990,960	November 23, 1999	Murakami
		5,995,670	November 30, 1999	Zabinsky
		6,002,439	December 14, 1999	Murakami
		6,097,759	August 1, 2000	Murakami
		6,100,825	August 8, 2000	Sedluk
		6,111,914	August 29, 2000	Bist
		6,148,109	November 14, 2000	Boon
		6,226,407	May 1, 2001	Zabih et al.
		6,253,165	June 26, 2001	Malvar
		6,292,588	September 18, 2001	Shen
		6,341,165	January 22, 2002	Gbur

EXAMINER SIGNATURE:	DATE CONSIDERED:
------------------------	---------------------

\* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	Attorney Docket Number	3382-67641-01
	Application Number	10/826,971
	Filing Date	April 15, 2004
	First Named Inventor	Liang
	Art Unit	2819
	Examiner Name	not yet assigned

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
		6,345,123	February 5, 2002	Boon
		6,421,738	July 16, 2002	Ratan et al.
		6,573,915	June 3, 2003	Sivan et al.
		6,646,578	November 11, 2003	Coquitlam
		6,721,700	April 13, 2004	Yin
		6,728,317	April 27, 2004	Demos
		6,766,293	July 20, 2004	Herre
		6,771,777	August 3, 2004	Gbur
		20040136457	July 15, 2004	Funnell et al.
		20050015249	January 20, 2005	Mehrotra et al.

**U.S. PATENT APPLICATION DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	Number	Filing Date	Name of Applicant or Patentee
		60/341,674	December 17, 2001	Lee et al.
		60/488,710	July 18, 2003	Srinivasan et al.

EXAMINER SIGNATURE:	DATE CONSIDERED:
------------------------	---------------------

\* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Attorney Docket Number	3382-67641-01
		Application Number	10/826,971
		Filing Date	April 15, 2004
		First Named Inventor	Liang
		Art Unit	2819
		Examiner Name	not yet assigned

**FOREIGN PATENT DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Pattee
		Europe	0540350	May 5, 1993	Yoshinari
		Europe	0910927	January 22, 1998	Gbur et al.
		Europe	0931386	January 28, 1999	Herre et al.
		Europe	0966793	September 24, 1998	Yin
		Japan	5-292481	November 5, 1993	Katsunori et al.
		Japan	7-274171	October 20, 1995	Akio

**OTHER DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	Brandenburg, "ASPEC CODING", <i>AES 10<sup>th</sup> International Conference</i> , pp. 81-90 (1991).
		De Agostino et al., "Parallel Algorithms for Optimal Compression using Dictionaries with the Prefix Property," in <i>Proc. Data Compression Conference '92, IEEE Computer Society Press</i> , pp. 52-62 (1992).
		Shamoon et al., "A Rapidly Adaptive Lossless Compression Algorithm for High Fidelity Audio Coding," <i>IEEE Data Compression Conf. 1994</i> , pp. 430-39 (March 1994).
		Reader, "History of MPEG Video Compression – Ver. 4.0," 99 pp., document marked December 16, 2003.
		Printouts of FTP directories from <a href="http://ftp3.itu.ch">http://ftp3.itu.ch</a> , 8 pp. (downloaded from the World Wide Web on September 20, 2005.)
		Microsoft Corporation, "Microsoft Debuts New Windows Media Player 9 Series, Redefining Digital Media on the PC," 4 pp. (September 4, 2002) [Downloaded from the World Wide Web on July 16, 2004].
		Mook, "Next-Gen Windows Media Player Leaks to the Web," <i>BetaNews</i> , 18 pp. (July 2002) [Downloaded from the World Wide Web on March 16, 2004].
		Wien et al., "16 Bit Adaptive Block size Transforms," JVT-C107r1, 54 pages.

EXAMINER SIGNATURE:	DATE CONSIDERED:
---------------------	------------------

\* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.